Approved For Release 2005/02/10 : CIA-RDP78B04747A001100020031-4

99/505

December 15, 1967

STATINTL To: [redacted]

STATINTL [redacted]

I am pleased to submit a proposed Work Statement and Budgetary Estimate for continued effort in Microdensitometry Support.

STATINTL STATINTL Our Budgetary estimate of [redacted] assumes a 12 month period of performance. STATINTL
STATINTL It also contemplates the continued utilization of people like [redacted] We have also included some hours for [redacted]

I trust this meets all of your requirements. If you have any questions, please contact me. STATINTL

[redacted]

REW/dt

Incl. a/s

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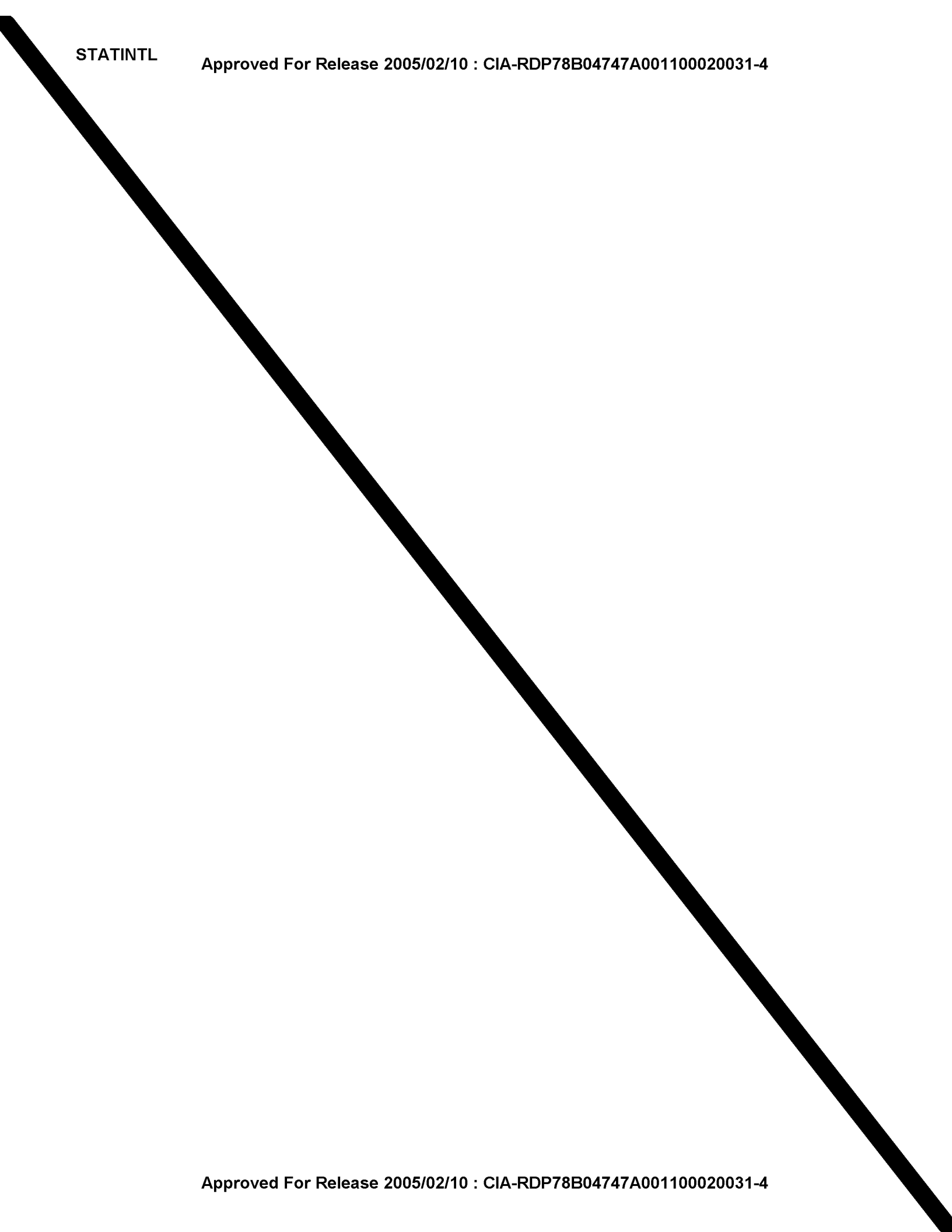

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# MICRODENSITOMETRY SUPPORT

STATINTL Statement of Work

1. [redacted] will provide technical assistance, as required, to establish operating procedures which will produce valid output from the [redacted] 1032T trichromatic microdensitometer. This work will include an investigation to determine proper location of filters.

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2. [redacted] will provide information processing routines for automatic data reduction of the microdensitometer output. These routines will facilitate technical and intelligence analyses of single and multilayer emulsion films. The documentation furnished in support of these routines will include:

a. Complete listing of the deck for each FORTRAN program.

b. Documentation for each FORTRAN program consisting of:

1. Block diagram of the program showing the exact flow of this data and operation preformed on it.

2. Detailed description of all input data such as; range and number of data values; purpose, definition and values of all constants; settings on the NPIC Microdensitometer that are peculiar to the program.

3. Detailed description of all output data such as: range of values; what the cause could be if the values are out of range (assuming the program is in production status; what assumption and conclusion can be drawn from the output.

4. Detailed description of all mathematical analysis methods in the program, equations and relevant diagrams.

5. Description of any option in the program and any other uses the program might have.

6. Glossary of terms.

c. Compile set of test data for each program including intermediate calculations and the output. Whenever possible all input data to any program will be combined on the magnetic tape realed by the microdensitometer. The only exception might be when input to one program is output of another.

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3. [redacted] will provide test targets and test routines for establishing
STATINTL the validity of any scan or series of scans made on the microdensitometer.

4. [redacted] will provide technical assistance, as required, in the general areas of photoscience, electronic engineering, computer programming and optical
STATINTL analysis.

5. [redacted] will investigate the application of various lens combinations to reduce focus depth effects when scanning multi-layer emulsions with various wave
STATINTL length of light.

6. [redacted] will provide analytical and experimental support in the development of image analysis and image processing techniques unique to the exploitation field. Particular emphasis will be placed on the deduction of fundamental object properties, e.g., brightness contours, from the recorded image. In those cases wherein the deduction of such data is not possible, the failure of physical description
STATINTL will be identified and recommendations made as to future courses of action.

7. [redacted] will provide monthly status reports on the work accomplished and the funds expended. These reports will be submitted within two weeks after the
STATINTL end of the reporting period.

8. [redacted] will provide a final report on the work accomplished. The rough draft of this final report will be submitted thirty days before contract termination date, and the final copies will be delivered to the customer thirty days after approval of rough draft.

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